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      Holoshitz, Joseph
      Ling, Song
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      Methods and Compositions for the Treatment of Diseases Associated
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      The residue at this position can be lysine or arginine.
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      The residues at these positions can be any amino acid.
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Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Val Arg Asp Leu Leu Asp 25

Asn Ala Ser Ala Leu Tyr Arg Glu Ala Leu Glu Ser Pro Glu His Cys

Ser Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu

Leu Met Thr Leu Ala Thr Trp Val Gly Gly Asn Leu Glu Asp His Lys 65

Asp Leu Leu Glu Gln Lys Arg Ala Ala Val Asp Thr Tyr Cys Val Asp

Pro Ile Ser Arg Asp Leu Val Val Ser Tyr Val Asn Thr Asn Met Gly . 100

Leu Lys Phe Arg Gln Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe 120

Gly Arg Glu Thr Val Ile Glu Tyr Leu Val Ser Phe Gly Val Trp Ile 130 135 140

Arg Thr Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu Ser Thr 145 150 155 160

Leu Pro Ala Trp Ala Arg Val Ile Asn 165

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Asn Ala Ser Ala Leu Tyr Arg Glu Ala Leu Glu Ser Pro Glu His Cys 35 40 45

Ser Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu 50 55 60

Leu Met Thr Leu Ala Thr Trp Val Gly Gly Asn Leu Glu Asp His Lys 70 75 80

Asp Ile Leu Glu Asp Glu Arg Ala Ala Val Asp Thr Tyr Cys Val Asp 85 90 95

Pro Ile Ser Arg Asp Leu Val Val Ser Tyr Val Asn Thr Asn Met Gly
100 105 110

Leu Lys Phe Arg Gln Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe 115 120 125

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<223>
       histidine.
<220>
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<222>
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Gly Arg Glu Thr Val Ile Glu Tyr Leu Val Ser Phe Gly Val Trp Ile

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<223> Synthetic
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Gln Lys Arg Ala Ala Cys
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<211>
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      Synthetic
<223>
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Cys Gln Lys Arg Ala Ala
<210> 25
<211> 5
<212> PRT
<213> Escherichia coli
<220>
      MISC_FEATURE
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<222>
       (3)...(3)
       The amino acid at this position is selected from the group of
<223>
       amino acids consisting of alanine, valine, leucine, isoleucine,
       serine, threonine and asparagine.
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<220>-
<221> MISC FEATURE
<222>
       (4)..(4)
<223>
       The amino acid at this position is selected from the group of
       amino acids consisting
       of alanine, valine, isoleucine, serine, threonine and asparagine.
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Gln Arg Xaa Xaa Ala
<210> 26
<211>
       5
<212>
       PRT
<213> Escherichia coli
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<221>
       MISC FEATURE
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       (3)..(3)
<223>
       The amino acid at this position is selected from the group of
       amino acids consisting of alanine, valine, leucine, isoleucine,
       serine, threonine and asparagine.
<220>
<221>
       MISC_FEATURE
<222>
       (4)...(4)
<223>
       The amino acid at this position is selected from the group of
       amino acids consisting of
       alanine, valine, isoleucine, serine, threonine and asparagine.
<400>
       26
Gln Lys Xaa Xaa Ala
<210> 27
<211>
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       Escherichia coli
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<221>
       MISC_FEATURE
<222>
       (3)..(3)
       The amino acid at this position is selected from the group of
<223>
       amino acids consisting of alanine, valine, leucine, isoleucine,
       serine, threonine and asparagine.
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       (4)...(4)
       The amino acid at this position is 2 is selected from the group
       of amino acids consisting of alanine, valine, isoleucine, serine,
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threonine and asparagine.

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Gln His Xaa Xaa Ala 1 5

<210> 28

<211> 14

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<220>

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Lys Asp Leu Leu Glu Gln Arg Arg Ala Ala Val Asp Thr Tyr

5 10

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Ala Glu Pro Ala Val Tyr Phe Lys Glu Gln Phe Leu Asp Gly Asp Gly 20 25 30

Trp Thr Ser Arg Trp Ile Glu Ser Lys His Lys Ser Asp Phe Gly Lys 35 40 45

Phe Val Leu Ser Ser Gly Lys Phe Tyr Gly Asp Glu Glu Lys Asp Lys 50 55 60

Gly Leu Gln Thr Ser Gln Asp Ala Arg Phe Tyr Ala Leu Ser Ala Ser 65 70 75 80

Phe Glu Pro Phe Ser Asn Lys Gly Gln Thr Leu Val Val Gln Phe Thr 85 90 95

Val Lys His Glu Gln Asn Ile Asp Cys Gly Gly Gly Tyr Val Lys Leu 100 105 110

Phe Pro Asn Ser Leu Asp Gln Thr Asp Met His Gly Asp Ser Glu Tyr 115 120 125

Asn Ile Met Phe Gly Pro Asp Ile Cys Gly Pro Gly Thr Lys Lys Val His Val Ile Phe Asn Tyr Lys Gly Lys Asn Val Leu Ile Asn Lys Asp Ile Arg Cys Lys Asp Asp Glu Phe Thr His Leu Tyr Thr Leu Ile Val 170 Arg Pro Asp Asn Thr Tyr Glu Val Lys Ile Asp Asn Ser Gln Val Glu Ser Gly Ser Leu Glu Asp Asp Trp Asp Phe Leu Pro Pro Lys Lys Ile Lys Asp Pro Asp Ala Ser Lys Pro Glu Asp Trp Asp Glu Arg Ala Lys · 215 Ile Asp Asp Pro Thr Asp Ser Lys Pro Glu Asp Trp Asp Lys Pro Glu His Ile Pro Asp Pro Asp Ala Lys Lys Pro Glu Asp Trp Asp Glu Glu Met Asp Gly Glu Trp Glu Pro Pro Val Ile Gln Asn Pro Glu Tyr Lys Gly Glu Trp Lys Pro Arg Gln Ile Asp Asn Pro Asp Tyr Lys Gly Thr Trp Ile His Pro Glu Ile Asp Asn Pro Glu Tyr Ser Pro Asp Pro Ser 290 295 Ile Tyr Ala Tyr Asp Asn Phe Gly Val Leu Gly Leu Asp Leu Trp Gln 305 310 Val Lys Ser Gly Thr Ile Phe Asp Asn Phe Leu Ile Thr Asn Asp Glu 325 Ala Tyr Ala Glu Glu Phe Gly Asn Glu Thr Trp Gly Val Thr Lys Ala Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu Lys 355 360 Glu Glu Glu Asp Lys Lys Arg Lys Glu Glu Glu Ala Glu Asp 370

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Leu
<210> 30
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       The residue at this position can be any amino acid.
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<223> The residue at this position can be any amino acid.
<220>
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<223>
       The residue at this position can be any amino acid.
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<400> 31

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<210>
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<220>
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<223>
       The residue at this position can be any amino acid.
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<221> MISC_FEATURE
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      (7)...(7)
       The residue at this position can be any amino acid.
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Xaa Gln Arg Arg Thr Ala Xaa
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       The residue at this position can be any amino acid.
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      (7)..(7)
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       The residue at this position can be any amino acid.
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Xaa Gln Lys Arg Leu Ala Xaa
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      (7)..(7)
       The residue at this position can be any amino acid.
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 <223> The residue at this position can be any amino acid.
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 <221> MISC_FEATURE
 <222> (7)..(7)
        The residue at this position can be any amino acid.
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 <220>
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        (7)...(7)
 <222>
 <223>
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